



## UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office  
Address: COMMISSIONER FOR PATENTS  
P.O. Box 1450  
Alexandria, Virginia 22313-1450  
[www.uspto.gov](http://www.uspto.gov)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/010,850	12/05/2001	Peggy J. Clews	SD6957597664	7432
7590	06/03/2004			EXAMINER
Sandia National Laboratories				TRAN, BINH X
P. O. Box 5800 - MS-0161			ART UNIT	PAPER NUMBER
Albuquerque, NM 87185-0161			1765	

DATE MAILED: 06/03/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

**Advisory Action**

Application No.	Applicant(s)
10/010,850	CLEWS ET AL
Examiner	Art Unit
Binh X Tran	1765

—The MAILING DATE of this communication appears on the cover sheet with the correspondence address—

THE REPLY FILED 24 May 2004 FAILS TO PLACE THIS APPLICATION IN CONDITION FOR ALLOWANCE. Therefore, further action by the applicant is required to avoid abandonment of this application. A proper reply to a final rejection under 37 CFR 1.113 may only be either: (1) a timely filed amendment which places the application in condition for allowance; (2) a timely filed Notice of Appeal (with appeal fee); or (3) a timely filed Request for Continued Examination (RCE) in compliance with 37 CFR 1.114.

**PERIOD FOR REPLY [check either a) or b)]**

a)  The period for reply expires 3 months from the mailing date of the final rejection.  
b)  The period for reply expires on: (1) the mailing date of this Advisory Action, or (2) the date set forth in the final rejection, whichever is later. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of the final rejection.  
ONLY CHECK THIS BOX WHEN THE FIRST REPLY WAS FILED WITHIN TWO MONTHS OF THE FINAL REJECTION. See MPEP 706.07(f).

Extensions of time may be obtained under 37 CFR 1.136(a). The date on which the petition under 37 CFR 1.136(a) and the appropriate extension fee have been filed is the date for purposes of determining the period of extension and the corresponding amount of the fee. The appropriate extension fee under 37 CFR 1.17(a) is calculated from: (1) the expiration date of the shortened statutory period for reply originally set in the final Office action; or (2) as set forth in (b) above, if checked. Any reply received by the Office later than three months after the mailing date of the final rejection, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

1.  A Notice of Appeal was filed on \_\_\_\_\_. Appellant's Brief must be filed within the period set forth in 37 CFR 1.192(a), or any extension thereof (37 CFR 1.191(d)), to avoid dismissal of the appeal.

2.  The proposed amendment(s) will not be entered because:

- (a)  they raise new issues that would require further consideration and/or search (see NOTE below);
- (b)  they raise the issue of new matter (see Note below);
- (c)  they are not deemed to place the application in better form for appeal by materially reducing or simplifying the issues for appeal; and/or
- (d)  they present additional claims without canceling a corresponding number of finally rejected claims.

NOTE: See Continuation Sheet.

3.  Applicant's reply has overcome the following rejection(s): \_\_\_\_\_.  
4.  Newly proposed or amended claim(s) \_\_\_\_\_ would be allowable if submitted in a separate, timely filed amendment canceling the non-allowable claim(s).  
5.  The a) affidavit, b) exhibit, or c) request for reconsideration has been considered but does NOT place the application in condition for allowance because: See Continuation Sheet.  
6.  The affidavit or exhibit will NOT be considered because it is not directed SOLELY to issues which were newly raised by the Examiner in the final rejection.  
7.  For purposes of Appeal, the proposed amendment(s) a) will not be entered or b) will be entered and an explanation of how the new or amended claims would be rejected is provided below or appended.

The status of the claim(s) is (or will be) as follows:

Claim(s) allowed: \_\_\_\_\_.  
Claim(s) objected to: \_\_\_\_\_.  
Claim(s) rejected: 1 and 4-9.  
Claim(s) withdrawn from consideration: \_\_\_\_\_.  
8.  The drawing correction filed on \_\_\_\_\_ is a) approved or b) disapproved by the Examiner.  
9.  Note the attached Information Disclosure Statement(s) (PTO-1449) Paper No(s). \_\_\_\_\_.  
10.  Other: \_\_\_\_\_

NADINE G. NORTON  
SUPERVISORY PATENT EXAMINER  
*Nadine*

Continuation of 2. NOTE: The new limitation "while retaining the patterned layers of polysilicon and the metal layer including aluminum" raises new issues that would require further consideration and/or search.

Continuation of 5. does NOT place the application in condition for allowance because:

Applicants' argument, "one skill in the art would not be motivated to utilize an etching solution containing H<sub>2</sub>SO<sub>4</sub> and HF . . . since there would be no way to know whether or not the aluminum would be retained or attacked by the H<sub>2</sub>SO<sub>4</sub>" related to the new issues added by applicants. This new issues would require further consideration and/or search. The applicants further argue that the 0-140 °C in Liaw is a typographical mistake for 100-140 °C since in col. 2 lines 48-49 Liaw states "temperature 100-140 °C, preferably 120 °C". The examiner disagrees. The examiner acknowledges that Liaw does disclose the temperature of 100-140 °C as point out by applicants. However, Liaw also discloses the temperature from 0 to 140 °C. The examiner interprets the prior arts under "as is" condition and will not assume that there is a typographical error in Liaw suggested by applicants.

Binh X. Tran